

Abstract

A jet-injector device comprising a) a housing, b) a pressure chamber for a liquid to be ejected attached to or enclosed in the housing, the pressure chamber having at least one opening and at least one movable or collapsible wall or wall segment and c) a pressurizing mechanism attached to or enclosed in the housing operable to apply, directly or indirectly, force in a force chain between the housing and the wall to pressurize the pressure chamber content for ejection of a liquid jet through said opening, the mechanism comprising at least a force generator and optionally a transmission between the force generator and the wall. The device comprises an in-elastic element serially arranged between the force generator and the wall. A method for liquid jet generation comprises the steps of i) applying a primary force, directly or indirectly, on one part of an in-elastic element, ii) applying the pressurizing force by another part of the element, to thereby press the element between the primary force and the pressurizing force and iii) dissipating energy in the element.